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Intravascular ultrasound image segmentation: A **fast-marching** method
MH Hoy Cardinal, J Meunier, G Soulez ... - Image Computing and ..., 2003 - Springer
Abstract. **Intravascular ultrasound** (**IVUS**) is a medical imaging tech- nique that not only provides three-dimensional information about the blood vessel lumen and wall, but also directly depicts atherosclerotic plaque structure and morphology. Automatic processing of large data sets ...
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... **Intravascular ultrasound** images are acquired during a catheter pullback through the vessel. ... Note that these points represent the center of first and last **IVUS** images. ... in section 3. The process of catheter detection consists of applying the **fast marching** algorithm presented by ...
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Automated segmentation and analysis of vascular structures in magnetic resonance angiographic images
PJH de Koning, JA Schaap, ... - Magnetic ..., 2003 - Wiley Online Library
... thumbnail image. Automated Vessel Pathline Detection. WaveProp. The 3D pathline detector is based on the **fast marching** level set method (**FMLSM**), as described previously (17–20). ... Rasanen et al. (28) compared MRA with XA and **intravascular ultrasound** (**IVUS**). ...
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... It is applied in small regions, motivated by the Adalsteinsson-Sethian level-set narrow band approach [11], and uses a **fast marching** method for re-initialization. 1.2 Multigrid Review ... In the third case, we show segmentation of a medical image, **IVUS** (Intra Vascular Ultrasound). ...
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Z Shuku - ... 生物医学工程学杂志, 2001 - scholar.lib.cn
轮廓的提取是超声医图像学多维重建中最困难的问题之一。本文提出了一种超声心脏图像轮廓的自动检测方法。首先，根据超声图像的特点，对超声图像进行自适应加权中值滤波以消除斑点噪声。然后利用数学形态学的方法提取出心脏的初始轮廓。最后，运用活动轮廓模型，对初始轮廓进行 ...

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... On the other hand, angiograms, visualizing just the vessel lumen, are in- herently limited in defining the distribution and extension of coronary wall disease. As a perfect complement, **intravascular ultrasound** (**IVUS**) images Page 13. ...
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... problems. In this study we propose a method that is based on the iterative closest point (ICP) algorithm and a pre-computed closest point map obtained with a slight modification of the **fast marching** method proposed by Sethian. ...
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